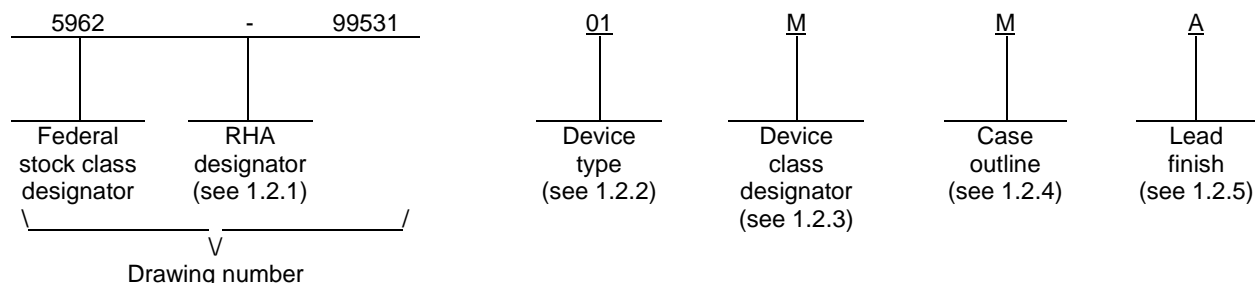


REVISIONS																			
LTR	DESCRIPTION										DATE (YR-MO-DA)				APPROVED				
A	Add radiation hardness requirements. - rrp										00-02-29				R. MONNIN				
B	Add case outlines X and T. Made changes to case outline N, 1.2.4, 1.3, figure 1, and figure 2. -rrp										02-02-11				R. MONNIN				
C	Delete the maximum limit of 4.5 A under the Current limit test as specified under Table I. - ro										07-08-16				R. HEBER				
D	Update drawing to current MIL-PRF-38535 requirements. Delete figure 3. -rrp										14-05-07				C. SAFFLE				
REV																			
SHEET																			
REV																			
SHEET																			
REV STATUS					REV		D	D	D	D	D	D	D	D	D	D	D	D	
OF SHEETS					SHEET		1	2	3	4	5	6	7	8	9	10	11	12	13
PMIC N/A					PREPARED BY RICK OFFICER					<b>DLA LAND AND MARITIME</b> <b>COLUMBUS, OHIO 43218-3990</b> <a href="http://www.landandmaritime.dla.mil">http://www.landandmaritime.dla.mil</a>									
<b>STANDARD MICROCIRCUIT DRAWING</b>  THIS DRAWING IS AVAILABLE FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE  AMSC N/A					CHECKED BY RAJESH PITHADIA														
					APPROVED BY RAYMOND MONNIN														
					DRAWING APPROVAL DATE 99-03-08														
										REVISION LEVEL D					SIZE A	CAGE CODE <b>67268</b>	<b>5962-99531</b>		
SHEET 1 OF 13																			

## 1. SCOPE

1.1 Scope. This drawing documents two product assurance class levels consisting of high reliability (device class Q and M) and space application (device class V). A choice of case outlines and lead finishes are available and are reflected in the Part or Identifying Number (PIN). When available, a choice of Radiation Hardness Assurance (RHA) levels is reflected in the PIN.

1.2 PIN. The PIN is as shown in the following example:



1.2.1 RHA designator. Device classes Q and V RHA marked devices meet the MIL-PRF-38535 specified RHA levels and are marked with the appropriate RHA designator. Device class M RHA marked devices meet the MIL-PRF-38535, appendix A specified RHA levels and are marked with the appropriate RHA designator. A dash (-) indicates a non-RHA device.

1.2.2 Device type(s). The device type(s) identify the circuit function as follows:

Device type	Generic number	Circuit function
01	OM3958	3.3 volt fixed, 2.6 amp, voltage regulator

1.2.3 Device class designator. The device class designator is a single letter identifying the product assurance level as follows:

Device class	Device requirements documentation
M	Vendor self-certification to the requirements for MIL-STD-883 compliant, non-JAN class level B microcircuits in accordance with MIL-PRF-38535, appendix A
Q or V	Certification and qualification to MIL-PRF-38535

1.2.4 Case outline(s). The case outline(s) are as designated in MIL-STD-1835 and as follows:

Outline letter	Descriptive designator	Terminals	Package style
M	See figure 1	3	Power surface mount
N	CBCC2-N3	3	Bottom terminal chip carrier
U	See figure 1	3	TO-257 flange mounted with isolated tab and glass sealed
X	CBCC1-N3	3	Bottom terminal chip carrier
T	See figure 1	3	Flange mount, glass sealed, with gull wings

1.2.5 Lead finish. The lead finish is as specified in MIL-PRF-38535 for device classes Q and V or MIL-PRF-38535, appendix A for device class M.

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### 1.3 Absolute maximum ratings. 1/

Input voltage ( $V_{IN}$ ) .....	+30 V dc 2/
Output current ( $I_{OUT}$ ) .....	2.6 A
Power dissipation ( $P_D$ ) .....	Internally limited
Junction temperature ( $T_J$ ) .....	+150°C
Lead temperature (soldering, 10 seconds) .....	+300°C
Storage temperature range .....	-65°C to +150°C
Thermal resistance, junction-to-case ( $\theta_{JC}$ ):	
Cases M, N, and U .....	3.6°C/W
Case X .....	2.8°C/W
Case T .....	6.3°C/W
Thermal resistance, junction-to-ambient ( $\theta_{JA}$ ):	
Cases M, N, and U .....	42°C/W
Case X .....	80°C/W
Case T .....	60°C/W

### 1.4 Recommended operating conditions.

Input voltage ( $V_{IN}$ ) .....	+20 V dc
Ambient operating temperature range ( $T_A$ ) .....	-55°C to +125°C

### 1.5 Radiation features:

Maximum total dose available (dose rate = 50 – 300 rads(Si)/s) .....	30 Krads 3/
--	-------------

## 2. APPLICABLE DOCUMENTS

2.1 Government specification, standards, and handbooks. The following specification, standards, and handbooks form a part of this drawing to the extent specified herein. Unless otherwise specified, the issues of these documents are those cited in the solicitation or contract.

#### DEPARTMENT OF DEFENSE SPECIFICATION

MIL-PRF-38535 - Integrated Circuits, Manufacturing, General Specification for.

#### DEPARTMENT OF DEFENSE STANDARDS

MIL-STD-883 - Test Method Standard Microcircuits.  
MIL-STD-1835 - Interface Standard Electronic Component Case Outlines.

#### DEPARTMENT OF DEFENSE HANDBOOKS

MIL-HDBK-103 - List of Standard Microcircuit Drawings.  
MIL-HDBK-780 - Standard Microcircuit Drawings.

(Copies of these documents are available online at <http://quicksearch.dla.mil/> or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

- 1/ Stresses above the absolute maximum rating may cause permanent damage to the device. Extended operation at the maximum levels may degrade performance and affect reliability.
- 2/ Guaranteed to withstand transient input voltage.
- 3/ These parts may be dose rate sensitive in a space environment and may demonstrate enhanced low dose rate effects. Radiation end point limits for the noted parameters are guaranteed only for the conditions specified in MIL-STD-883, method 1019, condition A.

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2.2 Order of precedence. In the event of a conflict between the text of this drawing and the references cited herein, the text of this drawing takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

### 3. REQUIREMENTS

3.1 Item requirements. The individual item requirements for device classes Q and V shall be in accordance with MIL-PRF-38535 as specified herein, or as modified in the device manufacturer's Quality Management (QM) plan. The modification in the QM plan shall not affect the form, fit, or function as described herein. The individual item requirements for device class M shall be in accordance with MIL-PRF-38535, appendix A for non-JAN class level B devices and as specified herein.

3.2 Design, construction, and physical dimensions. The design, construction, and physical dimensions shall be as specified in MIL-PRF-38535 and herein for device classes Q and V or MIL-PRF-38535, appendix A and herein for device class M.

3.2.1 Case outlines. The case outlines shall be in accordance with 1.2.4 herein and figure 1.

3.2.2 Terminal connections. The terminal connections shall be as specified on figure 2.

3.2.3 Radiation exposure circuit. The radiation exposure circuit shall be maintained by the manufacturer under document revision level control and shall be made available to the preparing and acquiring activity upon request.

3.3 Electrical performance characteristics and postirradiation parameter limits. Unless otherwise specified herein, the electrical performance characteristics and postirradiation parameter limits are as specified in table I and shall apply over the full ambient operating temperature range.

3.4 Electrical test requirements. The electrical test requirements shall be the subgroups specified in table II. The electrical tests for each subgroup are defined in table I.

3.5 Marking. The part shall be marked with the PIN listed in 1.2 herein. In addition, the manufacturer's PIN may also be marked. For packages where marking of the entire SMD PIN number is not feasible due to space limitations, the manufacturer has the option of not marking the "5962-" on the device. For RHA product using this option, the RHA designator shall still be marked. Marking for device classes Q and V shall be in accordance with MIL-PRF-38535. Marking for device class M shall be in accordance with MIL-PRF-38535, appendix A.

3.5.1 Certification/compliance mark. The certification mark for device classes Q and V shall be a "QML" or "Q" as required in MIL-PRF-38535. The compliance mark for device class M shall be a "C" as required in MIL-PRF-38535, appendix A.

3.6 Certificate of compliance. For device classes Q and V, a certificate of compliance shall be required from a QML-38535 listed manufacturer in order to supply to the requirements of this drawing (see 6.6.1 herein). For device class M, a certificate of compliance shall be required from a manufacturer in order to be listed as an approved source of supply in MIL-HDBK-103 (see 6.6.2 herein). The certificate of compliance submitted to DLA Land and Maritime-VA prior to listing as an approved source of supply for this drawing shall affirm that the manufacturer's product meets, for device classes Q and V, the requirements of MIL-PRF-38535 and herein or for device class M, the requirements of MIL-PRF-38535, appendix A and herein.

3.7 Certificate of conformance. A certificate of conformance as required for device classes Q and V in MIL-PRF-38535 or for device class M in MIL-PRF-38535, appendix A shall be provided with each lot of microcircuits delivered to this drawing.

3.8 Notification of change for device class M. For device class M, notification to DLA Land and Maritime-VA of change of product (see 6.2 herein) involving devices acquired to this drawing is required for any change that affects this drawing.

3.9 Verification and review for device class M. For device class M, DLA Land and Maritime, DLA Land and Maritime's agent, and the acquiring activity retain the option to review the manufacturer's facility and applicable required documentation. Offshore documentation shall be made available onshore at the option of the reviewer.

3.10 Microcircuit group assignment for device class M. Device class M devices covered by this drawing shall be in microcircuit group number 52 (see MIL-PRF-38535, appendix A).

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TABLE I. Electrical performance characteristics.

Test	Symbol	Conditions <u>1/2/</u> -55°C ≤ T <sub>A</sub> ≤ +125°C unless otherwise specified	Group A subgroups	Device type	Limits		Unit
					Min	Max	
Output voltage	V <sub>OUT</sub>	V <sub>IN</sub> = 5.0 V, I <sub>OUT</sub> = 10 mA	1	01	3.267	3.333	V
		4.80 V ≤ V <sub>IN</sub> ≤ 15 V, 10 mA ≤ I <sub>OUT</sub> ≤ 2.6 A	2,3		3.235	3.365	
		V <sub>IN</sub> = 5.0 V, I <sub>OUT</sub> = 10 mA M,D,P	1		3.267	3.333	
Line regulation <u>3/</u>	V <sub>RLINE</sub>	4.80 V ≤ V <sub>IN</sub> ≤ 15 V, I <sub>OUT</sub> = 0 A	1	01		10	mV
		M,D,P	2,3			12	
		M,D,P	1			10	
Load regulation <u>3/</u>	V <sub>RLOAD</sub>	V <sub>IN</sub> = 5.0 V, 0 A ≤ I <sub>OUT</sub> ≤ 2.6 A	1	01		15	mV
		M,D,P	2,3			25	
		M,D,P	1			15	
Dropout voltage	V <sub>DO</sub>	ΔV <sub>REF</sub> = 1.0 %, I <sub>OUT</sub> = 2.6 A	1,2,3	01		1.5	V
		M,D,P	1			1.5	
Thermal regulation		30 ms pulse, T <sub>A</sub> = +25°C	1	01		0.04	%W
		M,D,P	1			0.04	
Quiescent current	I <sub>Q</sub>	V <sub>IN</sub> = 18 V	1,2,3	01		10	mA
		M,D,P	1			10	
Current limit	I <sub>LIM</sub>	V <sub>IN</sub> = 8.3 V	1,2,3	01	2.6		A
		M,D,P	1		2.6		
		V <sub>IN</sub> = 28 V	1,2,3		.050		
		M,D,P	1		.050		
Temperature stability <u>4/</u>	ΔV <sub>OUT</sub> / ΔT <sub>J</sub>	-55°C ≤ T <sub>J</sub> ≤ +125°C	1,2,3	01		1.5	%
		M,D,P	1			1.5	

See footnotes at end of table.

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TABLE I. Electrical performance characteristics - Continued.

Test	Symbol	Conditions <u>1/2/</u> -55°C ≤ T <sub>A</sub> ≤ +125°C unless otherwise specified	Group A subgroups	Device type	Limits		Unit
					Min	Max	
Long term stability <u>4/</u>	$\Delta V_{OUT} / \Delta t$	T <sub>A</sub> = +125°C, 1000 hours M,D,P	1	01		1.0	%
			1			1.0	
Ripple rejection	$\Delta V_{IN} / \Delta V_{OUT}$	V <sub>IN</sub> = 6.3 V, I <sub>OUT</sub> = 2.6 A, C <sub>ADJ</sub> = 25 μF, f = 120 Hz, C <sub>OUT</sub> = 25 μF (tantalum) M,D,P	4,5,6	01	60		dB
			4		60		

1/ Devices supplied to this drawing will meet all levels M, D, P of irradiation. However, this device is only tested at the 'P' level. Pre and Post irradiation values are identical unless otherwise specified in table I. When performing post irradiation electrical measurements for any RHA level, T<sub>A</sub> = +25°C.

2/ These parts may be dose rate sensitive in a space environment and may demonstrate enhanced low dose rate effects. Radiation end point limits for the noted parameters are guaranteed only for the conditions specified in MIL-STD-883, method 1019, condition A.

3/ Line and load regulation are measured at a constant junction temperature using a low duty cycle pulse technique. Although power is internally limited, regulation is guaranteed up to the maximum power dissipation of 26 watts. Power dissipation is determined by the input / output differential voltage and the output current. Guaranteed maximum power dissipation will not be available over the full input / output voltage range.

4/ Parameter guaranteed by design or characterization and not production tested.

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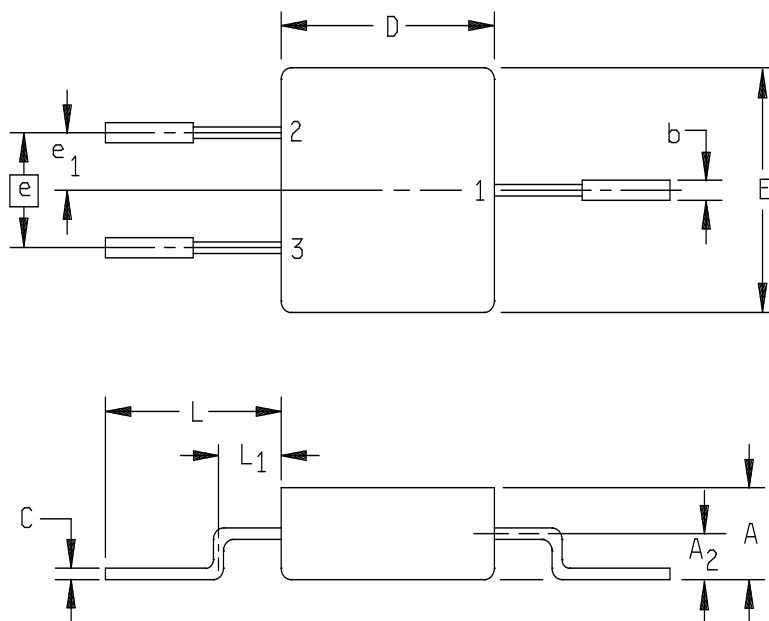
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# Case M



Symbol	Inches		Millimeters	
	Min	Max	Min	Max
A	.160	---	4.06	---
A2	.080	---	2.03	---
b	---	.035	---	0.89
C	.020	---	0.51	---
D	---	.425	---	10.8
E	---	.425	---	10.8
e	.200 BSC		5.08 BSC	
e1	.100 BSC		2.54 BSC	
L	.350	---	8.89	---
L1	---	.135	---	3.43

## NOTE:

The U.S. government preferred system of measurement is the metric SI system. However, since this item was originally designed using inch-pound units of measurement, in the event of conflict between the metric and inch-pound units, the inch-pound units shall take precedence.

FIGURE 1. Case outlines.

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**A**

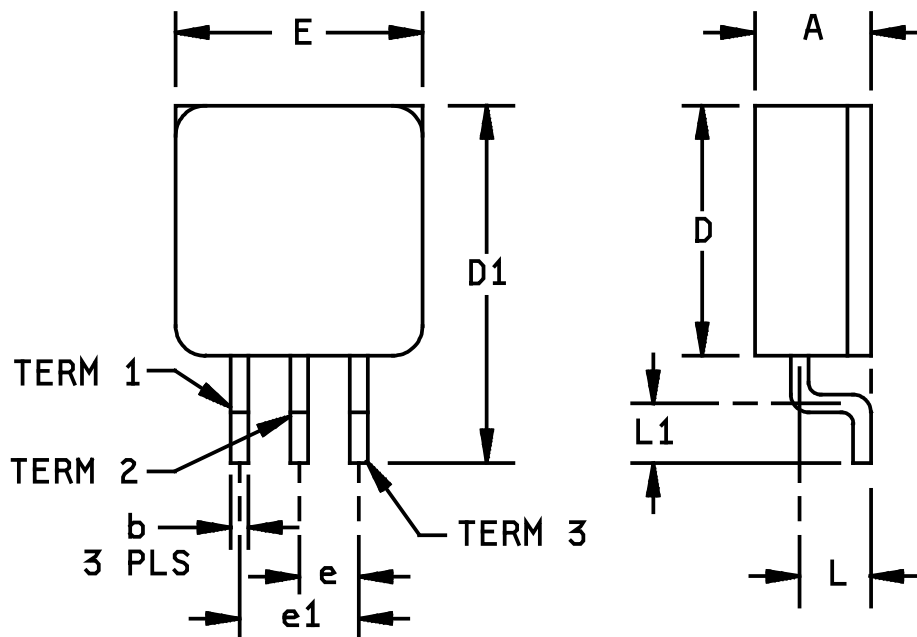
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Case outline T



Symbol	Inches		Millimeters	
	Min	Max	Min	Max
A	.190	.210	4.83	5.33
b	---	.030	---	0.76
D	.410	.430	10.41	10.92
D1	.580	.610	14.73	15.49
e	---	.100	---	2.54
e1	---	.200	---	5.08
E	.410	.420	10.41	10.67
L1	.090	.110	2.29	2.79
L	.115	.125	2.92	3.18
N	3		3	

NOTE:

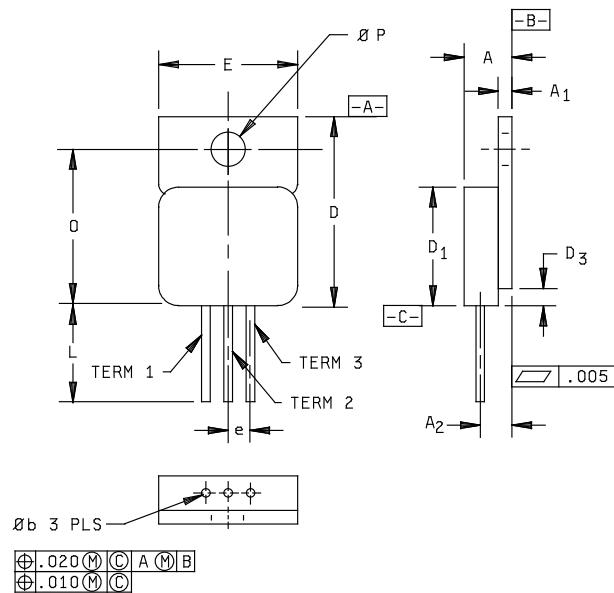
The U.S. government preferred system of measurement is the metric SI system. However, since this item was originally designed using inch-pound units of measurement, in the event of conflict between the metric and inch-pound units, the inch-pound units shall take precedence.

FIGURE 1. Case outlines - Continued.

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# Case U



Letter	Inches		Millimeters	
	Min	Max	Min	Max
A	.190	.200	4.83	5.08
A1	.035	.045	0.89	1.14
A2	.120 BSC		3.05 BSC	
Øb	.025	.035	0.64	0.89
D	.645	.665	16.38	16.89
D1	.410	.430	10.41	10.92
D3	.000	.065	0.00	1.65
e	.100 BSC		2.54 BSC	
E	.410	.422	10.41	10.71
L	.500	.750	12.70	19.05
O	.527	.537	13.39	16.64
ØP	.140	.150	3.56	3.81

## NOTE:

The U.S. government preferred system of measurement is the metric SI system. However, since this item was originally designed using inch-pound units of measurement, in the event of conflict between the metric and inch-pound units, the inch-pound units shall take precedence.

FIGURE 1. Case outlines - Continued.

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Device type	01				
Case outlines	M (see note 1)	N	U (see note 2)	X	T
Terminal number	Terminal symbol				
1	OUTPUT	GROUND	GROUND	GROUND	GROUND
2	GROUND	INPUT	OUTPUT	INPUT	OUTPUT
3	INPUT	OUTPUT	INPUT	OUTPUT	INPUT

NOTES:

1. Case is isolated.
2. Package has isolated tab.

FIGURE 2. Terminal connections.

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#### 4. VERIFICATION

4.1 Sampling and inspection. For device classes Q and V, sampling and inspection procedures shall be in accordance with MIL-PRF-38535 or as modified in the device manufacturer's Quality Management (QM) plan. The modification in the QM plan shall not affect the form, fit, or function as described herein. For device class M, sampling and inspection procedures shall be in accordance with MIL-PRF-38535, appendix A.

4.2 Screening. For device classes Q and V, screening shall be in accordance with MIL-PRF-38535, and shall be conducted on all devices prior to qualification and technology conformance inspection. For device class M, screening shall be in accordance with method 5004 of MIL-STD-883, and shall be conducted on all devices prior to quality conformance inspection.

##### 4.2.1 Additional criteria for device class M.

- a. Burn-in test, method 1015 of MIL-STD-883.
  - (1) Test condition A, B, C, or D. The test circuit shall be maintained by the manufacturer under document revision level control and shall be made available to the preparing or acquiring activity upon request. The test circuit shall specify the inputs, outputs, biases, and power dissipation, as applicable, in accordance with the intent specified in method 1015 of MIL-STD-883.
  - (2)  $T_A = +125^{\circ}\text{C}$ , minimum.
- b. Interim and final electrical test parameters shall be as specified in table II herein.

##### 4.2.2 Additional criteria for device classes Q and V.

- a. The burn-in test duration, test condition and test temperature, or approved alternatives shall be as specified in the device manufacturer's QM plan in accordance with MIL-PRF-38535. The burn-in test circuit shall be maintained under document revision level control of the device manufacturer's Technology Review Board (TRB) in accordance with MIL-PRF-38535 and shall be made available to the acquiring or preparing activity upon request. The test circuit shall specify the inputs, outputs, biases, and power dissipation, as applicable, in accordance with the intent specified in method 1015 of MIL-STD-883.
- b. Interim and final electrical test parameters shall be as specified in table II herein.
- c. Additional screening for device class V beyond the requirements of device class Q shall be as specified in MIL-PRF-38535, appendix B.

4.3 Qualification inspection for device classes Q and V. Qualification inspection for device classes Q and V shall be in accordance with MIL-PRF-38535. Inspections to be performed shall be those specified in MIL-PRF-38535 and herein for groups A, B, C, D, and E inspections (see 4.4.1 through 4.4.4).

4.4 Conformance inspection. Technology conformance inspection for classes Q and V shall be in accordance with MIL-PRF-38535 including groups A, B, C, D, and E inspections, and as specified herein. Quality conformance inspection for device class M shall be in accordance with MIL-PRF-38535, appendix A and as specified herein. Inspections to be performed for device class M shall be those specified in method 5005 of MIL-STD-883 and herein for groups A, B, C, D, and E inspections (see 4.4.1 through 4.4.4).

##### 4.4.1 Group A inspection.

- a. Tests shall be as specified in table II herein.
- b. Subgroups 7, 8, 9, 10, and 11 in table I, method 5005 of MIL-STD-883 shall be omitted.

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TABLE II. Electrical test requirements.

Test requirements	Subgroups (in accordance with MIL-STD-883, method 5005, table I)	Subgroups (in accordance with MIL-PRF-38535, table III)	
	Device class M	Device class Q	Device class V
Interim electrical parameters (see 4.2)	1	1	1
Final electrical parameters (see 4.2)	1,2,3,4,5,6 1/	1,2,3,4,5,6 1/	1,2,3, 1/ 4,5,6
Group A test requirements (see 4.4)	1,2,3,4,5,6	1,2,3,4,5,6	1,2,3,4,5,6
Group C end-point electrical parameters (see 4.4)	1,2,3	1,2,3	1,2,3
Group D end-point electrical parameters (see 4.4)	1,2,3	1,2,3	1,2,3
Group E end-point electrical parameters (see 4.4)	1,4	1,4	1,4

1/ PDA applies to subgroup 1.

4.4.2 Group C inspection. The group C inspection end-point electrical parameters shall be as specified in table II herein.

4.4.2.1 Additional criteria for device class M. Steady-state life test conditions, method 1005 of MIL-STD-883:

- a. Test condition A, B, C, or D. The test circuit shall be maintained by the manufacturer under document revision level control and shall be made available to the preparing or acquiring activity upon request. The test circuit shall specify the inputs, outputs, biases, and power dissipation, as applicable, in accordance with the intent specified in method 1005 of MIL-STD-883.
- b.  $T_A = +125^{\circ}\text{C}$ , minimum.
- c. Test duration: 1,000 hours, except as permitted by method 1005 of MIL-STD-883.

4.4.2.2 Additional criteria for device classes Q and V. The steady-state life test duration, test condition and test temperature, or approved alternatives shall be as specified in the device manufacturer's QM plan in accordance with MIL-PRF-38535. The test circuit shall be maintained under document revision level control by the device manufacturer's TRB in accordance with MIL-PRF-38535 and shall be made available to the acquiring or preparing activity upon request. The test circuit shall specify the inputs, outputs, biases, and power dissipation, as applicable, in accordance with the intent specified in method 1005 of MIL-STD-883.

4.4.3 Group D inspection. The group D inspection end-point electrical parameters shall be as specified in table II herein.

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4.4.4 Group E inspection. Group E inspection is required only for parts intended to be marked as radiation hardness assured (see 3.5 herein).

- a. End-point electrical parameters shall be as specified in table II herein.
- b. For device classes Q and V, the devices or test vehicle shall be subjected to radiation hardness assured tests as specified in MIL-PRF-38535 for the RHA level being tested. For device class M, the devices shall be subjected to radiation hardness assured tests as specified in MIL-PRF-38535, appendix A for the RHA level being tested. All device classes must meet the postirradiation end-point electrical parameter limits as defined in table I at  $T_A = +25^{\circ}\text{C} \pm 5^{\circ}\text{C}$ , after exposure, to the subgroups specified in table II herein.

4.4.4.1 Total dose irradiation testing. Total dose irradiation testing shall be performed in accordance with MIL-STD-883 method 1019, condition A and as specified herein.

## 5. PACKAGING

5.1 Packaging requirements. The requirements for packaging shall be in accordance with MIL-PRF-38535 for device classes Q and V or MIL-PRF-38535, appendix A for device class M.

## 6. NOTES

6.1 Intended use. Microcircuits conforming to this drawing are intended for use for Government microcircuit applications (original equipment), design applications, and logistics purposes.

6.1.1 Replaceability. Microcircuits covered by this drawing will replace the same generic device covered by a contractor prepared specification or drawing.

6.1.2 Substitutability. Device class Q devices will replace device class M devices.

6.2 Configuration control of SMD's. All proposed changes to existing SMD's will be coordinated with the users of record for the individual documents. This coordination will be accomplished using DD Form 1692, Engineering Change Proposal.

6.3 Record of users. Military and industrial users should inform DLA Land and Maritime when a system application requires configuration control and which SMD's are applicable to that system. DLA Land and Maritime will maintain a record of users and this list will be used for coordination and distribution of changes to the drawings. Users of drawings covering microelectronic devices (FSC 5962) should contact DLA Land and Maritime-VA, telephone (614) 692-8108.

6.4 Comments. Comments on this drawing should be directed to DLA Land and Maritime-VA, Columbus, Ohio 43218-3990, or telephone (614) 692-0540.

6.5 Abbreviations, symbols, and definitions. The abbreviations, symbols, and definitions used herein are defined in MIL-PRF-38535 and MIL-HDBK-1331.

6.6 Sources of supply.

6.6.1 Sources of supply for device classes Q and V. Sources of supply for device classes Q and V are listed in MIL-HDBK-103 and QML-38535. The vendors listed in QML-38535 have submitted a certificate of compliance (see 3.6 herein) to DLA Land and Maritime-VA and have agreed to this drawing.

6.6.2 Approved sources of supply for device class M. Approved sources of supply for class M are listed in MIL-HDBK-103. The vendors listed in MIL-HDBK-103 have agreed to this drawing and a certificate of compliance (see 3.6 herein) has been submitted to and accepted by DLA Land and Maritime-VA.

STANDARD MICROCIRCUIT DRAWING DLA LAND AND MARITIME COLUMBUS, OHIO 43218-3990	SIZE A		5962-99531
		REVISION LEVEL D	SHEET 13

## STANDARD MICROCIRCUIT DRAWING BULLETIN

DATE: 14-05-07

Approved sources of supply for SMD 5962-99531 are listed below for immediate acquisition information only and shall be added to MIL-HDBK-103 and QML-38535 during the next revision. MIL-HDBK-103 and QML-38535 will be revised to include the addition or deletion of sources. The vendors listed below have agreed to this drawing and a certificate of compliance has been submitted to and accepted by DLA Land and Maritime-VA. This information bulletin is superseded by the next dated revision of MIL-HDBK-103 and QML-38535. DLA Land and Maritime maintains an online database of all current sources of supply at <http://www.landandmaritime.dla.mil/Programs/Smcr/>.

Standard microcircuit drawing PIN <u>1</u> /	Vendor CAGE number	Vendor similar PIN <u>2</u> /
5962-9953101MMA	60264	MTLT1085QM-3.3
5962-9953101MNA	69210	MTLT1085QN-3.3
5962-9953101MTA	69210	MTLT1085QU-3.3
5962-9953101MUA	69210	MTLT1085QP-3.3
5962-9953101MXA	<u>3</u> /	OM3958N5M
5962P9953101MUA	<u>3</u> /	OMR3958STM/883B

- 1/ The lead finish shown for each PIN representing a hermetic package is the most readily available from the manufacturer listed for that part. If the desired lead finish is not listed contact the vendor to determine its availability.
- 2/ Caution. Do not use this number for item acquisition. Items acquired to this number may not satisfy the performance requirements of this drawing.
- 3/ Not available from an approved source of supply.

Vendor CAGE  
number

60264

Vendor name  
and address

Minco Technology Lab, Inc.  
1805 Rutherford Lane  
Austin, TX 78754-5101

The information contained herein is disseminated for convenience only and the Government assumes no liability whatsoever for any inaccuracies in the information bulletin.